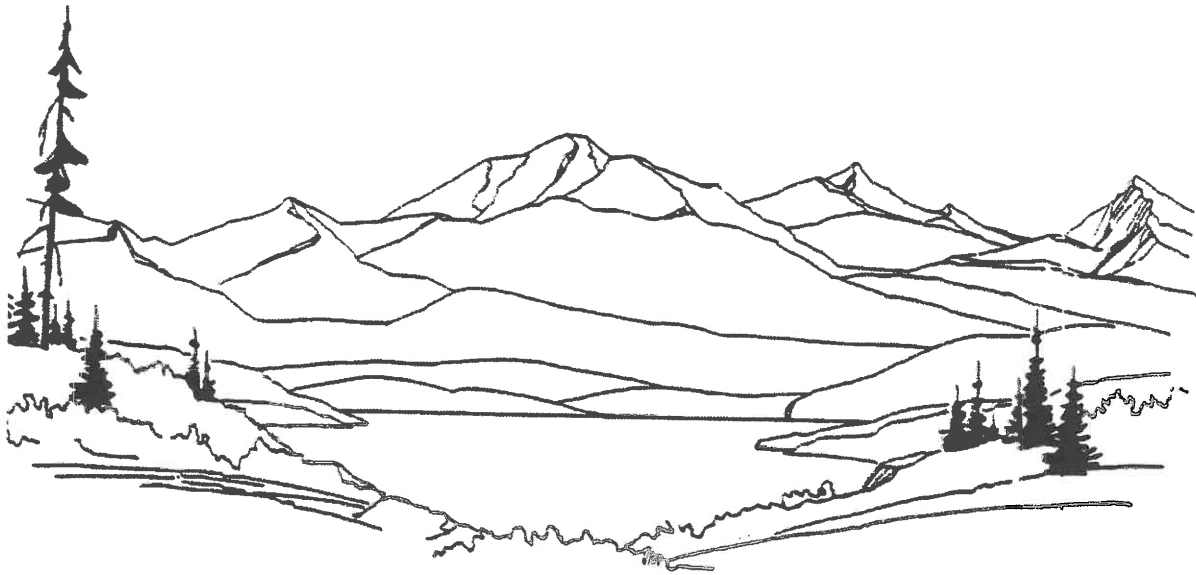


**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES**

**DIVISION OF PARKS
AND
OUTDOOR RECREATION**



PROPOSAL, CONTRACT, AND BOND

**CHILKOOT LAKE SRS
ENTRANCE UPGRADES
PROJECT NO. 72031-1**

TABLE OF CONTENTS

(State Funded)

1. Invitation

INVITATION FOR QUOTES	SPC-001	(3/14)
-----------------------	---------	--------

3. Forms

SMALL PROCUREMENT QUOTE SUBMITTAL	SPC-002	(3/14)
NOTICE OF AWARD	SPC-003	(3/14)
NOTICE TO PROCEED	SPC-003A	(08/03)
SUBCONTRACTOR LIST	25D-5DNR	(11/10)
BID BOND	25D-14DNR	(11/10)
PAYMENT BOND	SPC-005	(03/14)
PERFORMANCE BOND	SPC-006	(03/14)
OFFERER'S QUESTIONNAIRE	SPC-008	(05/02)
ALASKA PRODUCTS PREFERENCE WORKSHEET	APPW	(04/97)

4. Supplemental Conditions

5. Technical Specifications

APPENDIX A – SITE PICTURES
APPENDIX B – STATE WAGE RATES
APPENDIX C - PERMITS



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

INVITATION FOR QUOTES FOR
A SMALL PROCUREMENT
(CONSTRUCTION RELATED)

[per AS 36.30.320(a)]

Project Name & No.: <u>Chilkoot Lake SRS</u> <u>Entrance Upgrades</u> <u>72031-1</u>	Procurement Agency and Address: <u>Alaska State Parks</u> <u>Design & Construction Section</u> <u>550 W 7th Ave., Suite 1380</u> <u>Anchorage, AK 99501-3565</u> <u>Ph (907) 269-8731 Fax (907) 269-8917</u>
Location: <u>Haines, Alaska</u>	

Procurement Officer: Rys Miranda, P.E.-Chief of Design & Construction Date of Issuance: August 4, 2016

DESCRIPTION OF WORK, REQUIRED COMPLETION DATE, LISTING OF ATTACHMENTS:

Provide all labor, materials, and equipment necessary to install entrance gates, traffic barrier bollards, and signs per the plans and specifications.

All Work Must be Completed by: November 30, 2016

Attachments: Small Procurement Quote Submittal, General Conditions, Insurance Requirements, Bid Bond, Subcontractor List, Offeror's Questionnaire, Alaska Products Preference Worksheet, Supplemental Conditions, Technical Specifications

The Project cost estimate is: ☐ under \$10,000 ☒ 10,000 - \$50,000 ☐ 50,001 - \$100,000 ☐ \$100,001 - \$200,000^{1,2}

1. Quotes in excess of \$200,000 will be deemed non-responsive. 2. Any project in excess of \$100,000 must be bonded.

Davis-Bacon Wages (Title 36.05): are ☒ are not ☐ required on this project.

The following insurance coverage's are required: ☒ Workers Comp ☒ General Liability ☒ Automobile

Bonding Requirements: Any project in excess of \$100,000 must be bonded.

The undersigned proposes to furnish Payment Bond in the amount of 100% and Performance Bond in the amount of 100% (of the contract), as surety conditioned for the full, complete and faithful performance of this contract. (See attached Bid Bond Sheet 25D-14, Payment Bond SPC-005 and Performance Bond SPC-006 forms.)

Quotes for furnishing all labor, equipment and materials and performing all work for the above Project are invited. To be eligible for Consideration, quotes must be received before 2:00 P.M. local time on the 16 day of August, 2016. Late quotes cannot be accepted. Disadvantaged Business Enterprises (DBE's) may submit quotes and will not be discriminated against on the grounds of race, color, national origin or sex in consideration for an Award which results from this invitation. Any errors, omissions, or questions pertaining to solicitation procedures or Project requirements, requests for additional documents, or inquiries pertaining to site conditions or scheduled visits must be made to:

Title: Jacob Gondek, P.E. - Project Manager, at: Alaska State Parks, Design & Construction Section
550 W 7th Ave., Suite 1380, Anch. AK 99501-3565, Telephone: (907) 269-8756; Fax: (907) 269-8917

Applicable provisions of AS 36.30 and 2 AAC 12 govern this solicitation.

SUBMITTAL OF QUOTES: Quotes for this Project must be submitted in the manner noted below. All Offerors must familiarize themselves with the *Instructions to Offerors*, page 2 of this form, prior to submitting their quote.

- ☐ - VERBAL QUOTES SHALL BE GIVEN TO _____
AT THE ABOVE NOTED TELEPHONE NUMBER, PRIOR TO THE STATED DEADLINE. (See above **Bonding Requirements**.)
- ☒ - WRITTEN QUOTES, INCLUDING AMENDMENTS OR WITHDRAWALS, MUST BE RECEIVED PRIOR
TO THE ABOVE NOTED DEADLINE. QUOTES MUST BE SUBMITTED ON FORM SPC-002, QUOTE SUBMITTAL,
ATTACHED. (See above **Bonding Requirements**.)

Written quotes may be submitted by Fax, hand delivered, or mailed in a sealed envelope. Confidentiality is only assured for sealed quotes. Mailed quotes must allow time for delivery and the envelope must be marked as follows:

Quote for Project:

Name: Chilkoot Lake SRS Entrance Upgrades
Number: 72031-1
Attn: Jacob Gondek, P.E. - Project Manager

Procurement Agency Address:

Alaska State Parks, Design & Construction
550 W. 7th Ave., Suite 1380
Anchorage, AK 99501-3565

Quote amendments or withdrawals must be made in writing to the individual of the Procurement Agency receiving the quotes, and must be received prior to the time for quote submittal.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

INVITATION FOR QUOTES FOR
A SMALL PROCUREMENT
(CONSTRUCTION RELATED)

INSTRUCTIONS TO OFFERORS

The State of Alaska desires that all Offerors submitting quotes on construction contracts are given a fair and equal opportunity to compete. Offerors are required to follow these instructions:

REVIEW THE PROJECT DOCUMENTS: Most construction Projects in excess of \$1,000 will have some type of written documentation prepared expressly for the Work. If you are asked to submit a quote and no written information has been provided, you should ask the procurement Agency for written documentation. If the scope of services have been described to you verbally, and you are selected for Contract Award, you must ensure that the information of the services to be performed (scope of work) is put in writing prior to accepting the Contract. When providing a Quote, carefully review and consider all materials related to the solicitation and work of the contract. **By submitting a quote the Offeror warrants that they are familiar with the Project requirements, have visited or otherwise examined the site, and are aware of the conditions to be encountered.** Offeror's can verify the contents and completeness of their quote documents by contacting the procurement Agency individual named on the front of this form.

SUBMITTING THE QUOTE: The Quote must be submitted in one of the following formats as called for in the Invitation:

1. **ORALLY** - if a verbal quote is solicited, the Offeror must provide, in addition to their quote amount and mailing address -- (1) their valid Alaska Business License number, (2) if applicable, a valid Contractor's Registration number, (3) their status as an Alaskan Bidder (Offeror), (4) their intended use of Alaskan products, (5) the carrier's name and policy number for their Workers' Comp Insurance (or a statement of sole proprietorship, if applicable), and (6) the Employer (Tax) Identification Number or Social Security Number. The Procurement Agency will enter this information on the quote schedule.

2. **WRITTEN** - if a written quote is solicited, the Offeror must complete, in ink or typewritten, the *Small Procurement Quote Submittal*, Form SPC-002. Failure to acknowledge receipt of addenda or to execute the form correctly and completely may disqualify the quote.

NOTE: The Department of Labor requires an Offeror to be licensed and registered for the required type of work prior to submitting a quote. If the procurement Agency determines the Offeror is improperly registered or licensed, their quote may be deemed nonresponsive.

SUBCONTRACTOR LISTING: Subcontractors intended to be utilized on this contract must be listed in the response to the solicitation. Work shall not be awarded to any subcontractor without prior approval from the procurement Agency. Subcontractors may be added or removed only as approved by the procurement Agency.

DETERMINATION OF THE LOWEST RESPONSIBLE QUOTE AND CONTRACT AWARD: Following receipt and determination of all responsive oral, written or sealed quotes, the procurement Agency will compare the quotes and determine the lowest Offeror. If the procurement Agency discovers a discrepancy between the unit price amount and the extended amount; the unit price amount will prevail. Conditioned quotes, unless expressly requested, will not be considered. When the quote schedule is composed of a basic amount with alternates, the procurement Agency will base its determination of the low quote and the amount of the Contract Award solely upon those quotes, basic and alternates, that are priced within the extent of available construction funds. Alternates will be considered for Award in the order listed, except that if the order of Offerors is not affected, the Award may include any combination of funded alternates, or none, as may be in the best interest of the procurement Agency.

When determining the lowest quote, the procurement Agency will also give a 5% Alaska Offeror's preference and an appropriate Alaska Products preference to quotes designating the applicability of a preference. To qualify for the Offeror's preference (per AS 36.30.170) the Offeror **must** (1) hold a current Alaska Business License, (2) submit the quote under the name appearing on the license, (3) have staffed and maintained a place of business within Alaska for the previous six months and (4) be incorporated or qualified to do business under the laws of the State. In addition, if the Offeror is a partnership or joint venture, all parties must meet the criteria to be eligible for the preference. A booklet fully describing the Alaska Preferences (Bidder, Offeror, Product, Disabilities, Veteran) program is available at <http://doa.alaska.gov/dgs/pdf/pref2.pdf>. A detailed description of the Alaska Products Preference Program is available at <http://www.commerce.state.ak.us/ded/dev/prodpref/prodpref.htm>.

The procurement Agency will make a determination of **responsibility** as required by 2 AAC 12.500. If the lowest Offeror is declared responsible, the procurement Agency will execute the *Notice of Award / Notice to Proceed*, Form SPC-003, and send it to the Offeror for acknowledgement. If the lowest Offeror is found to be nonresponsive, this process will be repeated with the second lowest Offeror -- and so on until the lowest responsive and responsible Offeror is determined.

NOTICE OF AWARD AND PROTEST: A written notice will be provided on all Awards exceeding \$ 25,000 (2 AAC 12.400(h)). All protests must be filed with the Commissioner of the procurement Agency (or designee) and copied to the Procurement Officer. Protest procedures are described in AS 36.30.560 and 2 AAC 12.695. The extent of the protest remedy is limited to quote preparation costs (AS 36.30.585).



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

**SMALL PROCUREMENT QUOTE SUBMITTAL
(CONSTRUCTION RELATED)**

[per AS 36.30.320(a)]

Project Name & No.: <u>Chilkoot Lake SRS</u> <u>Entrance Upgrades</u> <u>72031-1</u>		Procurement Agency and Address: <u>Alaska State Parks</u> <u>Design & Construction Section</u> <u>550 W 7th Ave, Suite 1380</u> <u>Anchorage, AK 99501-3565</u> <u>Phone (907) 269-8731</u> <u>Fax (907) 269 -8917</u>
Location: <u>Haines, Alaska</u>		
Procurement Officer: <u>Rys Miranda, P.E.</u> <u>Chief, Design & Construction</u> <u>550 W 7th Ave., Suite 1380</u> <u>Anchorage, AK 99501</u>	Date of Issuance: <u>August 4, 2016</u> Bid is Due: <u>2:00 P.M., August 16, 2016</u>	

QUOTE: Offerors must read all attachments to this schedule.

ITEM NO.	ITEM	UNIT	UNIT PRICE	QUANTITY	AMOUNT
100(1)	Mobilization and Demobilization	Lump Sum	\$	All Req'd	\$
200(1)	Single Entrance Gate	Each	\$	2	\$
200(2)	Traffic Bollard	Each	\$	4	\$
300(1)	Standard Sign	Square Foot	\$	30.75	\$
BASIC BID (BB) TOTAL					\$

I have reviewed the bid documents, with addenda _____, and understand the scope of services and conditions required for Project number **72031-1**. I agree to furnish all necessary labor, materials, and equipment for the above amount(s). The Work shall be accomplished in a professional manner acceptable to the Procurement Officer.

Contractor _____ Contractor Reg. No. _____
Authorized Signature _____ Title _____
Address _____

Business License # _____ EIN or SSN _____ Phone # _____

Offeror is Claiming: ☐ Alaska Bidder's Preference ☐ Alaska Veteran's Preference
☐ Alaska Products Pref. (worksheet)

Procurement Agency Official: _____

Date of Receipt of Bid: _____

Offeror to Complete this Portion



**STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES**

**NOTICE OF AWARD (NOA)
SMALL PROCUREMENT CONTRACT
(CONSTRUCTION RELATED)**

[per AS 36.30.320]

Project Name & No.: <u>Chilkoot Lake SRS</u> <u>Entrance Upgrades</u> <u>72031-1</u>	Procurement Agency and Address: <u>Alaska State Parks</u> <u>Design & Construction Section</u> <u>550 W 7th Ave., Suite 1380</u> <u>Anchorage AK 99501-3565</u> <u>Ph (907) 269-8731 Fax (907) 269-8917</u>
Location: <u>Haines, Alaska</u>	
Procurement Officer's Signature:	Date of Issuance:

TO: _____ _____ _____	FOR: Work related to Basic Bid of: _____ including the basic quote and alternate quote item(s): <u>N/A</u> _____ _____	The Contractor Must Submit:
		Insurance* <input checked="" type="checkbox"/> Bonding* <input checked="" type="checkbox"/> Certified Wages* <input checked="" type="checkbox"/> Dept. of Labor (Notice of Work)* <input checked="" type="checkbox"/> Subcontractor List* <input checked="" type="checkbox"/> <small>* Comments as applicable: Bids below \$25,000.00 do not require a DOL-NOW.</small>

.....
Your quote in the amount of _____ submitted on August 16, 2016 is accepted for performance of the Work described in the attached Invitation for Quotes (Form SPC-001), and the quote as submitted on the *Small Procurement Quote Submittal* (Form SPC-002), which are a part of this Contract.

The Contractor must sign, date, and return this document to the *procurement* address shown above. The Procurement Officer will then sign and return a copy to the Contractor, and the Award will be deemed made. The Work of this contract may not commence until the Notice to Proceed (NTP) is issued.

Contractor's Signature of Contract Award Acceptance: _____ Date : _____

NOTICE TO UNSELECTED OFFERORS ON PROJECTS OVER \$ 50,000

In accordance with the protest rights afforded under 2 AAC 12.400(d)(2)(B) & (3), a copy of this Notice of Award is hereby provided to those individuals and businesses who submitted a response to the initial solicitation on which this award is made.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

NOTICE OF AWARD (NOA)
SMALL PROCUREMENT CONTRACT
(CONSTRUCTION RELATED)

GENERAL CONDITIONS

[Construction Procurement under AS 36.30.320]

These terms, conditions and requirements apply to the Contract Documents describing the Work for the Project. If any provision of these Contract Documents is declared by a court to be illegal or in conflict with any law, the validity of the remaining provisions and the ensuing rights and obligations of the Parties to the contract shall not be affected.

Whenever used in these Contract Documents, the following terms shall have the indicated meaning. Any term not so defined shall have its ordinary meaning.

- **Approved or Approval** - means written approval by the Procurement Officer or authorized representative.
- **Award** - means the written acceptance of the lowest responsive and responsible quote by the Procurement Agency.
- **Contract Documents** - includes the *Invitation for Quotes for a Small Procurement*, Form SPC-001 (with Instructions - if issued), the *Notice of Award / Notice to Proceed*, Form SPC-003, any addenda, written changes, or attachments as noted in the description of the Work.
- **Procurement Officer** - the person authorized to enter into and administer the contract on behalf of the Procurement Agency.
- **Parties to the Contract** - includes the Procurement Agency, the owner Agency representing the State of Alaska, and the Contractor, being the entity contracting with the owner Agency for performance of the Work.
- **Project** - the total construction, of which the Work performed under the Contract is the whole or part.
- **Project Manager** - the Procurement Officer's authorized representative, responsible for Contract administration.
- **Work** - is the act of, and the result from, performing services, furnishing labor, furnishing and incorporating materials and equipment into the Project and performing other duties and obligations, all as required by the Contract Documents.

1. The Procurement Officer (or authorized representative) has the authority to make findings, determinations and decisions with respect to the contract; to Approve materials, Work and payment therefore; and to modify or terminate the contract on behalf of the Procurement Agency.
2. The Contractor shall have sole responsibility for the means, methods, sequences, or procedures of construction and safety precautions related to the Project. The Contractor shall conduct all Work in such a manner that protects the public and State resources.
3. The Contractor must comply with all applicable laws, regulations, codes, ordinances and written directives issued by the Procurement Officer. In addition, the Contractor must obtain applicable licenses and permits; provide supervision, labor, tools, and new materials (except as may otherwise be provided by the Procurement Agency); and utilize Alaska Products and Wood Products when applicable (see AS 36.05.010 & AS 36.30.322).
4. The Contractor shall not award Work to any subcontractor without prior Approval from the Procurement Officer.
5. The Procurement Agency reserves the right to make written changes to the Contract Documents for modifications within the general scope of the Work.
6. Any act or occurrence, be it a result of an emergency, differing site condition or change order, which may form the basis of a claim for a price or time adjustment must be reported immediately to the Procurement Officer.
7. The Department of Labor and Workforce Development, Wage and Hour Administration, must be notified in accordance with AS 36.05.010 and AS 36.05.030 if the resulting contract for repairs or construction exceeds \$25,000. The Contractor must comply with the requirements noted within the Department of Labor packet entitled, "Laborers' & Mechanics' Minimum Rates of Pay." To obtain a copy of the referenced packet, contact the Procurement Agency or the Department of Labor.
8. The primary contractor working on public construction projects with an amount of \$25,000 or more must file a Notice of Work and pay a one percent fee based on the estimated value of work performed by the prime contractor and one percent of the value of each subcontractor's price, to the Department of Labor and Workforce Development, Wage and Hour Administration (DOLWD). The maximum fee is \$5,000.00. The notice and fees must be filed with the DOLWD before work commences on the project.

Upon completing the construction project, the primary contractor must file a Notice of Completion (NOC) and make payment of any additional fees due to increases in the contract amounts due the primary contractor. The Notice of Work and Notice of Completion forms are available at:

<http://www.labor.state.ak.us/lss/lssforms.htm>

9. The Contractor shall indemnify, save harmless, and defend the Procurement Agency, its agents and its employees in accordance with Appendix B1 below. Furthermore, the Contractor shall, prior to the Award of the contract, provide proof of Workmen's Compensation, General Liability, and Automobile Insurance in amounts as applicable under Appendix B1. These coverages shall remain in force for the duration of the Contract.
10. The Contractor shall remedy all defects in materials or workmanship that develop within a period of one year from the date of final payment.
11. The Procurement Agency will make final payment to the Contractor following approval of completion of all Work and the Contractor's submittal of all releases, warranties, record documents, permits and invoices. Liens or other claims relating to the Project may be withheld from final payment if written notice is first given to the Contractor. Acceptance of the final payment will constitute the Contractor's waiver to future claims.
12. Any dispute arising out of this Contract, which cannot be satisfactorily remedied by the Parties to the Contract, shall be resolved under AS 36.30.620 - 699.

APPENDIX B¹
INDEMNITY AND INSURANCE

Article 1. Indemnification

The Contractor shall indemnify, hold harmless, and defend the contracting agency from and against any claim of, or liability for error, omission or negligent act of the Contractor under this agreement. The Contractor shall not be required to indemnify the contracting agency for a claim of, or liability for, the independent negligence of the contracting agency. If there is a claim of, or liability for, the joint negligent error or omission of the Contractor and the independent negligence of the Contracting agency, the indemnification and hold harmless obligation shall be apportioned on a comparative fault basis. "Contractor" and "Contracting agency", as used within this and the following article, include the employees, agents and other contractors who are directly responsible, respectively, to each. The term "independent negligence" is negligence other than in the Contracting agency's selection, administration, monitoring, or controlling of the Contractor and in approving or accepting the Contractor's work.

Article 2. Insurance

Without limiting Contractor's indemnification, it is agreed that Contractor shall purchase at its own expense and maintain in force at all times during the performance of services under this agreement the following policies of insurance. Where specific limits are shown, it is understood that they shall be the minimum acceptable limits. If the Contractor's policy contains higher limits, the state shall be entitled to coverage to the extent of such higher limits. Certificates of Insurance must be furnished to the Contracting Officer prior to beginning work and must provide for a notice of cancellation, nonrenewal, or material change of conditions in accordance with policy provisions. Failure to furnish satisfactory evidence of insurance or lapse of the policy is a material breach of this contract and shall be grounds for termination of the Contractor's services. All insurance policies shall comply with, and be issued by insurers licensed to transact the business of insurance under AS 21.

2.1 Workers' Compensation Insurance: The Contractor shall provide and maintain, for all employees engaged in work under this contract, coverage as required by AS 23.30.045, and; where applicable, any other statutory obligations including but not limited to Federal U.S.L. & H. and Jones Act requirements. The policy must waive subrogation against the State.

2.2 Commercial General Liability Insurance: covering all business premises and operations used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000. combined single limit per occurrence.

2.3 Commercial Automobile Liability Insurance: covering all vehicles used by the Contractor in the performance of services under this agreement with minimum coverage limits of \$300,000. combined single limit per occurrence.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

SUBCONTRACTOR LIST

Chilkoot Lake SRS Entrance Upgrades, Project No. 72031-1

Project Name and Number

The apparent low bidder shall complete this form and submit it so as to be received by the Contracting Officer prior to the close of business day on the fifth working day after receipt of written or verbal notice from the Department.

Failure to submit this form with all required information by the due date will result in the bidder being declared nonresponsive and may result in the forfeiture of the Bid Security.

Scope of work must be clearly defined. If an item of work is to be performed by more than one firm, indicate the portion or percent of work to be done by each.

Check as applicable:

☐

All Work on the above-referenced project will be accomplished without subcontracts greater than 1/2 of 1% of the contract amount.

OR

☐

Subcontractor List is as follows:

LIST FIRST TIER SUBCONTRACTORS ONLY

FIRM NAME, ADDRESS, PHONE NUMBER	AK BUSINESS LICENSE NO., CONTRACTOR'S REGISTRATION NO.	SCOPE OF WORK TO BE PERFORMED

CONTINUE SUBCONTRACTOR INFORMATION ON REVERSE SIDE

I hereby certify that the listed licenses and registrations were valid at the time bids were received for this project. For contracts involving Federal-aid funding, Alaska Business License and Contractor Registration will be required prior to award of subcontract.

Signature of Authorized Company Representative

Title

Company Name

Company Address (Street or PO Box, City, State, Zip)

Date

E-mail Address

()

Phone Number



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

BID BOND

For

Chilkoot Lake SRS Entrance Upgrades, Project No. 72031-1

Project Name and Number

DATE BOND EXECUTED: _____

PRINCIPAL (Legal name and business address):

TYPE OF ORGANIZATION:

	<input type="checkbox"/> Individual	<input type="checkbox"/> Partnership
	<input type="checkbox"/> Joint Venture	<input type="checkbox"/> Corporation
STATE OF INCORPORATION:		

SURETY(IES) (Name and business address):

A.	B.	C.
PENAL SUM OF BOND:		DATE OF BID:

We, the PRINCIPAL and SURETY above named, are held and firmly bound to the State (State of Alaska), in the penal sum of the amount stated above, for the payment of which sum will be made, we bind ourselves and our legal representatives and successors, jointly and severally, by this instrument.

THE CONDITION OF THE FOREGOING OBLIGATION is that the Principal has submitted the accompanying bid in writing, date as shown above, on the above-referenced Project in accordance with contract documents filed in the office of the Contracting Officer, and under the Invitation for Bids therefor, and is required to furnish a bond in the amount stated above.

If the Principal's bid is accepted and he is offered the proposed contract for award, and if the Principal fails to enter into the contract, then the obligation to the State created by this bond shall be in full force and effect.

If the Principal enters into the contract, then the foregoing obligation is null and void.

PRINCIPAL

Signature(s)	1.	2.	3.
Name(s) & Title(s) (Typed)	1.	2.	3.
See Instructions on Reverse			Corporate Seal

CORPORATE SURETY(IES)

Surety A	Name of Corporation	State of Incorporation	Liability Limit \$
Signature(s)	1.	2.	Corporate Seal
Name(s) & Titles (Typed)	1.	2.	

Surety B	Name of Corporation	State of Incorporation	Liability Limit \$
Signature(s)	1.	2.	Corporate Seal
Name(s) & Titles (Typed)	1.	2.	

Surety C	Name of Corporation	State of Incorporation	Liability Limit \$
Signature(s)	1.	2.	Corporate Seal
Name(s) & Titles (Typed)	1.	2.	

INSTRUCTIONS

1. This form shall be used whenever a bid bond is submitted.
2. Insert the full legal name and business address of the Principal in the space designated. If the Principal is a partnership or joint venture, the names of all principal parties must be included (e.g., "Smith Construction, Inc. and Jones Contracting, Inc. DBA Smith/Jones Builders, a joint venture"). If the Principal is a corporation, the name of the state in which incorporated shall be inserted in the space provided.
3. Insert the full legal name and business address of the Surety in the space designated. The Surety on the bond may be any corporation or partnership authorized to do business in Alaska as an insurer under AS 21.09. Individual sureties will not be accepted.
4. The penal amount of the bond may be shown either as an amount (in words and figures) or as a percent of the contract bid price (a not-to-exceed amount may be included).
5. The scheduled bid opening date shall be entered in the space marked Date of Bid.
6. The bond shall be executed by authorized representatives of the Principal and Surety. Corporations executing the bond shall also affix their corporate seal.
7. Any person signing in a representative capacity (e.g., an attorney-in-fact) must furnish evidence of authority if that representative is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved.
8. The states of incorporation and the limits of liability of each surety shall be indicated in the spaces provided.
9. The date that bond is executed must not be later than the bid opening date.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

**PERFORMANCE BOND
SMALL PROCUREMENT CONTRACT
(CONSTRUCTION RELATED)**

Bond No. _____

For

Chilkoot Lake SRS Entrance Upgrades, Project No. 72031-1

Project Name and Number

KNOW ALL WHO SHALL SEE THESE PRESENTS:

That _____
of _____ as Principal,
and _____
of _____ as Surety,
firmly bound and held unto the State of Alaska in the penal sum of _____ Dollars

(\$ _____) good and lawful money of the United States of America for the payment whereof,
well and truly to be paid to the State of Alaska, we bind ourselves, our heirs, successors, executors, administrators, and assigns,
jointly and severally, firmly by these presents.

WHEREAS, the said Principal has entered into a written contract with said State of Alaska, on the _____ of _____
A.D., 20____, for construction of the above-named project, said work to be done according to the terms of said contract.

Now, THEREFORE, the conditions of the foregoing obligation are such that if the said Principal shall well and truly perform and
complete all obligations and work under said contract and if the Principal shall reimburse upon demand of the Department of
Transportation and Public Facilities any sums paid him which exceed the final payment determined to be due upon completion of the
project, then these presents shall become null and void; otherwise they shall remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals at _____
_____ this _____ day of _____ A.D., 20____.

Principal: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

Surety: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

The offered bond has been checked for adequacy under the applicable statutes and regulations:

Alaska Department of Natural Resources Authorized Representative

Date

See Instructions on Reverse

INSTRUCTIONS

1. This form shall be used whenever a performance bond is required. There shall be no deviation from this form without approval from the Contracting Officer.
2. The full legal name, business address, phone number, and point of contact of the Principal and Surety shall be typed on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
3. The penal amount of the bond, or in the case of more than one surety the amount of obligation, shall be typed in words and in figures.
4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the Contracting Officer.
5. The bond shall be signed by authorized persons. Where such person is signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

**PAYMENT BOND
SMALL PROCUREMENT CONTRACT
(CONSTRUCTION RELATED)**

Bond No. _____

For

Chilkoot Lake SRS Entrance Upgrades, Project No. 72031-1

Project Name and Number

KNOW ALL WHO SHALL SEE THESE PRESENTS:

That

of _____ as Principal,

and _____

of _____ as Surety,

firmly bound and held unto the State of Alaska in the penal sum of

_____ Dollars

(\$ _____) good and lawful money of the United States of America for the payment whereof,

well and truly to be paid to the State of Alaska, we bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally, firmly by these presents.

WHEREAS, the said Principal has entered into a written contract with said State of Alaska, on the _____ of _____ A.D., 20____, for construction of the above-referenced project, said work to be done according to the terms of said contract.

Now, THEREFORE, the conditions of the foregoing obligation are such that if the said Principal shall comply with all requirements of law and pay, as they become due, all just claims for labor performed and materials and supplies furnished upon or for the work under said contract, whether said labor be performed and said materials and supplies be furnished under the original contract, any subcontract, or any and all duly authorized modifications thereto, then these presents shall become null and void; otherwise they shall remain in full force and effect.

IN WITNESS WHEREOF, we have hereunto set our hands and seals at _____, this _____ day of _____ A.D., 20____.

Principal: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

Surety: _____

Address: _____

By: _____

Contact Name: _____

Phone: () _____

The offered bond has been checked for adequacy under the applicable statutes and regulations:

Alaska Department of Natural Resources Authorized Representative

Date

INSTRUCTIONS

1. This form, for the protection of persons supplying labor and material, shall be used whenever a payment bond is required. There shall be no deviation from this form without approval from the Contracting Officer.
2. The full legal name, business address, phone number, and point of contact of the Principal and Surety shall be typed on the face of the form. Where more than a single surety is involved, a separate form shall be executed for each surety.
3. The penal amount of the bond, or in the case of more than one surety the amount of obligation, shall be typed in words and in figures.
4. Where individual sureties are involved, a completed Affidavit of Individual Surety shall accompany the bond. Such forms are available upon request from the Contracting Officer.
5. The bond shall be signed by authorized persons. Where such persons are signing in a representative capacity (e.g., an attorney-in-fact), but is not a member of the firm, partnership, or joint venture, or an officer of the corporation involved, evidence of authority must be furnished.



STATE OF ALASKA
DEPARTMENT OF NATURAL RESOURCES

SMALL PROCUREMENT
(CONSTRUCTION RELATED)
OFFEROR'S QUESTIONNAIRE

Project Name: Chilkoot Lake SRS Entrance Upgrades

Project Number: 72031-1

Project Location: Haines, Alaska

A. FINANCIAL

1. Have you ever failed to complete a contract due to insufficient resources?

Yes ☐ No ☐ If yes, explain: _____

2. Describe any arrangements you would make to finance this work: _____

B. EQUIPMENT

1. Describe the equipment you have available and would use for this project.

ITEM	QUAN.	MAKE	MODEL	SIZE/ CAPACITY	PRESENT MARKET VALUE

2. What percent of the total value of this contract would you subcontract? _____
3. Would you purchase any equipment for use on this project: Yes ☐ No ☐
If yes, describe type, quantity, and approximate cost: _____

4. Would you rent any equipment for this work? Yes ☐ No ☐
If yes, describe type, quantity, and approximate cost: _____

5. Is your proposal based on firm offers for all materials for this project? Yes ☐ No ☐
If no, please explain: _____

C. EXPERIENCE

1. Have you had previous construction contracts or subcontracts with the State of Alaska?
Yes ☐ No ☐
Describe the most recent or current contract, its completion date, and scope of work:

2. List, as an attachment to this questionnaire, other construction projects you have completed; the dates of completion, scope of work, and total contract amount for each project completed in the past 12 months.

I hereby certify that the above statements are true and complete.

Name of Respondent

Signature

Date

Name and Title of Person Signing

ALASKA PRODUCTS PREFERENCE WORKSHEET

(See Reverse Side for Instructions)

Project Name and Number: **Chilkoot Lake SRS Entrance Upgrades, Project No. 72031-1**

Bid Phase: _____ Contractor: _____

[illegible]

INSTRUCTIONS FOR ALASKA PRODUCTS PREFERENCE WORKSHEET

Special Notice: All procurements, except those funded from Federal sources, shall contain Contract provisions for the preference of Alaska products. To be considered for the Alaska Product Preference, each product listed by the Bidder on this worksheet must have current certification from the Alaska Products Preference Program at the time of Bid Opening. A product with expired certification at the bid opening date will not be considered eligible. Products that are not specified for use on the project will not be considered eligible. The Alaska Product Preference Program List of certified products is available online at: <http://www.commerce.state.ak.us/ded/dev/prodpref/prodpref.htm> or may be obtained by contacting the local DCED office or writing: Dept. of Commerce & Economic Development, Alaska Products Preference List, P.O. Box 110800, Juneau, Alaska 99811-0800.

BIDDERS INSTRUCTIONS:

- A. General.** The contracting Agency may request documentation to support entries made on this form. False presentations may be subject to AS 36.30.687. All Bidder's entries must conform to the requirements covering bid preparations in general. Discrepancies in price extensions shall be resolved by multiplying the declared total value times the preference percentage and adjusting any resulting computation(s) accordingly.
- B. Form Completion – BASIC BIDS.**
- (1) Enter project number and name, the words "Basic Bid" and the CONTRACTOR'S name in the heading of each page as provided.
 - (2) The Bidder shall compare those candidate products appearing on the preference listing (see Special Notice comments above) against the requirements of the technical specifications appearing in the contract documents. If the Bidder determines that a candidate product can suitably meet the contract requirements, then that product may be included in the worksheet as follows.
 - The product name, generic description and its corresponding technical specification section number under the heading "PRODUCT",
 - The company name of the Alaska producer under the heading "Manufacturer", and
 - The product class (I, II, or III) and preference percentage (3, 5, or 7% respectively) under the "CLASS/% heading.
 - (4) For each product appearing on the list and to be utilized by the CONTRACTOR enter:
 - Under the heading "TOTAL DECLARED VALUE" the manufacturer's quoted price of the product, (caution: this value is to be the manufacturer's quoted price at the place of origin and shall not include costs for freight, handling or miscellaneous charges of incorporating the product into the Work.) and
 - The resulting preference – i.e. the preference percentage times the total declared value amount – under the heading "REDUCTION AMOUNT".
 - (5) Continue for all "suitable" basic bid products. If the listing exceeds one page enter the words "Page # __ SUB" in front of the word "TOTAL" and on the first line of the following pages enter "SUBTOTAL OF REDUCTION AMOUNT FROM PREVIOUS PAGE".
 - (6) On the final page of the listing enter "BASIC BID PREFERENCE GRAND" immediately before the word "TOTAL".
 - (7) Total the entries in the "REDUCTION AMOUNT" column for each page by commencing at the first entry for that page. If a continuation page exists, ensure that the subtotal from the previous page is computed into the running total. Number pages as appropriate.
 - (8) Compute a Grand Total for the Basic Bid Preference. Enter the amount on the final page of the worksheet. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Basic Bid Schedule.) Submit worksheet(s) with the Bid Schedule.
- C. Form Completion – ALTERNATE BIDS.**
- (1) Enter project number and name, the words "ALTERNATE BID # __", and CONTRACTOR'S name in the heading of each page as provided.
 - (2) On the first entry line enter "ADDITIONAL ALASKA PRODUCTS FOR ALTERNATE BID # __", and repeat procedures 2 through 5 under part B these Bidder's instructions except that references to "Basic Bid" shall be replaced with the words "Alternate Bid # __".
 - (3) Following the listing of all additional Alaska products enter the words "ADDITIONAL PRODUCTS PREFERENCE FOR ALTERNATE BID # __ - SUBTOTAL" and enter a subtotal amount for all additional products as listed. Subtotal amount to be determined by adding all additional product entries in the "REDUCTION AMOUNT" column. Skip three lines and enter "LESS THE FOLLOWING NON-APPLICABLE ALASKA PRODUCTS:
 - (4)
 - (5) Beginning on the next line, enter the product name and manufacturer of each Alaska Product appearing on the "Basic Bid" listing which would be deleted or reduced from the Project should the "Alternate Bid" be selected. Details of entry need only be sufficient to clearly reference the subject product. (i.e. "Pre-hung doors by Alaska Door Co., Anchorage.") Products being reduced shall specify the amount of the reduction. Should no products require deletion enter "None". When a product is listed as a "NON-APPLICABLE ALASKA PRODUCT" for this alternate bid and if under the basic bid the Bidder received a preference on his basic bid as a result of that product, then the applicable entries under the headings "TOTAL DECLARED VALUE" and "REDUCTION AMOUNT" (for each product and from the basic bid listing) shall also be entered into the corresponding headings of this form. Where only a portion of the products has been deleted, the entry (which will differ from those on the basic bid listing) may be "pro-rated" or as otherwise substantiated.
 - (6) Following the listing of all non-applicable Alaska products enter the words "NON-APPLICABLE PRODUCTS PREFERENCE FROM BASIC BID ____ SUBTOTAL" and enter a subtotal amount for all non-applicable products listed. Subtotal amount to be determined by adding all non-applicable entries in the "REDUCTION AMOUNT" column.
 - (7) At the bottom of the final page enter the words "ALTERNATE BID # __ PREFERENCE GRAND" immediately before the word "TOTAL".
 - (8) Compute a Grand Total for the Alternate Bid Preference (for Alternate # __) by subtracting the non-applicable product preference subtotal from the additional product preference subtotal. Enter on the final page. (Note: When solicitations require written bids this amount should also be entered on line "C" of the Alternate Bid Schedule.) Submit separate worksheet(s) with each Alternate Bid.

SUPPLEMENTAL CONDITIONS

A. INSURANCE REQUIREMENTS. Add to no. 9 of the General Conditions of the Construction Contract: The State of Alaska, Department of Natural Resources, Division of Parks and Outdoor Recreation shall be named as an "Additional Insured" under all liability coverage's listed above.

B. CONSTRUCTION LIMITATIONS. It is the intent of this contract to construct this project without disturbing land outside the project limits. Equipment, materials, and manpower will not be allowed outside the project limits. The Contractor shall not use construction equipment or workers that, in the opinion of the Engineer, cannot consistently operate within the project limits.

Areas in and around the work site are considered sensitive and therefore special attention should be given to all construction activities.

C. ONE YEAR CORRECTION PERIOD. Replace no. 10 of the General Conditions of the Construction Contract with the following: If within one year after the date of Project Completion or such longer period of time as may be prescribed by the Contract, any work is found to be defective, the Contractor shall promptly, without cost to the Department and in accordance with the Engineer's written instructions, either correct such defective work, or, if it has been rejected by the Engineer, remove it from the site and replace it with conforming work. If the Contractor does not promptly comply with the terms of such instructions, or in an emergency where delay would cause serious risk of loss or damage, the Department may have the defective work corrected or the rejected work removed and replaced, and all direct, indirect and consequential costs of such removal and replacement (including but not limited to fees and charges of engineers, architects, attorneys and other professionals) will be paid by the Contractor. In special circumstances where a particular item of equipment is placed in continuous service for the benefit of the Department before project completion, the corrective period for that item may begin on an earlier date if so provided in the Contract or by change order. Provisions of this subsection are not intended to shorten the statute of limitations for bringing an action.

D. SOURCE OF SUPPLY AND QUALITY REQUIREMENTS. The materials used on the work shall meet all quality requirements of the contract. Approval, subject to field inspection, shall be given by the Engineer on the basis of inspection reports indicating full compliance with the specifications. Cost of testing for specification compliance shall be the Contractor's responsibility.

Whenever materials or equipment are specified or described in the contract documents by using the name of a proprietary item or the name of a particular supplier the naming

SUPPLEMENTAL CONDITIONS
CHILKOOT LAKE SRS
ENTRANCE UPGRADES
PROJECT NO. 72031-1

of the item is intended to establish the type, function and quality required. Unless the name is followed by words indicating that no substitution is permitted, materials or equipment of other suppliers may be accepted by the Department if sufficient information is submitted by the Contractor which clearly demonstrates to the Department that the material or equipment proposed is equivalent or equal in all aspects to that named. Requests for review of substitute items of material and equipment will not be accepted by the Department from anyone other than the Contractor.

E. PERMITS. The following permits have been processed on the Contractor's behalf by the Department:

PERMIT DESCRIPTION	ISSUE DATE	EXPIRE DATE
Department of Natural Resources Office of History and Archeology Letter of No Historic Properties Adversely Affected	April 10, 2014	N/A

The permits obtained by the Department are attached to these specifications as Appendix C. The terms, conditions, and stipulations contained in all the permits obtained by either the Department or the Contractor are hereby made a part of these specifications. It is the Contractor's responsibility to abide by the stipulations contained in each permit. If it is determined that an activity cannot be performed as specified in one of the permits, the Contractor shall cease work and immediately notify the Engineer. The Engineer will then decide if a permit modification is necessary. The Engineer will have copies of the permits on site.

It is the Contractor's responsibility to obtain all permits required for actions not permitted previously by the Department. The Contractor is responsible for complying with all permit stipulations, conditions and/or terms.

The Contractor shall provide timely notification of such actions and permit acquisitions as may be required by federal, state, regional, and local authorities. The Contractor shall provide copies of all permits, and applicable Federal and State notifications to the Project Engineer.

F. LIQUIDATED DAMAGES. For each calendar day that the work remains incomplete after the expiration of the contract time, the sum of \$300 shall be deducted from any monies due the Contractor. If no money is due the Contractor, the Department shall have the right to recover said sum from the Contractor, the surety or both. The amount of these deductions is to cover estimated expenses incurred by the Department as a

SUPPLEMENTAL CONDITIONS
CHILKOOT LAKE SRS
ENTRANCE UPGRADES
PROJECT NO. 72031-1

result of the Contractor's failure to complete the work within the time specified. Such deductions are liquidated damages and are not to be considered as penalties.

G. SUBMITTALS AND SUBSTITUTIONS. If the Contractor wishes to furnish or use a substitute item of material or equipment, the Contractor shall make written application to the Department for approval thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application will state that the evaluation and approval of the proposed substitute will not delay the Contractor's achievement of final completion on time, whether or not acceptance of the substitute for use in the work will require a change in any of the contract documents to adapt the design to the proposed substitute and whether or not incorporation or use of the substitute in connection with the work is subject to payment of any license fee or royalty.

Submittals are required for materials. Submittal approval by Department is required prior to incorporation of materials into work. Complete submittal information is required to be on the job site at all times during construction. Contractor shall make materials available for inspection in a convenient manner, at the time of arrival, for conformance with the submittal information and contract documents. Materials found to differ from contract specifications shall be replaced at no additional expense to Department.

When materials or work are specified to be "per manufacturer's recommendations", submit written manufacturer's recommendations for the materials or work prior to commencing work or incorporating materials into work.

H. NOTICE TO PROCEED. The Contractor may request a limited Notice to Proceed after the award has been made, to permit him to order long lead materials which would cause delays in project completion. However, granting is within the sole discretion of the Contracting Officer, and refusal or failure to grant a Limited Notice to Proceed shall not be a basis for claiming delay, extension of time, or alteration of price.

Notice to Proceed will not be issued prior to **August 26, 2016.**

I. COMPLETION DATE. All work shall be completed on or before **November 30, 2016.**

TECHNICAL SPECIFICATIONS

SECTION 100

MOBILIZATION AND DEMOBILIZATION

100-1.01 DESCRIPTION. Perform work and operations necessary to

1. Move personnel, equipment, supplies, and incidentals to the project site.
2. Establish offices, buildings, and other facilities, except as provided under Section 644.
3. Perform other work and operations and pay costs incurred before beginning construction.
4. Complete similar demobilization activities.
5. Furnish required submittals such as as-builts, certifications, payroll, civil rights reports, and equipment warranties.
6. Comply with Department of Labor Meals and Lodging/Per Diem requirements. (See Laborer's and Mechanics' Minimum Rates of Pay pamphlet No. 600 Issue 9 included in Addendum 3, Department of Labor (DOL) September 1, 2004 memo WHPL #197 and September 1, 2004 letter from the Department of Labor Commissioner.)

100-2.01 MATERIALS. None.

100-3.01 CONSTRUCTION REQUIREMENTS. None.

100-4.01 METHOD OF MEASUREMENT

1. When 4 % of the original contract amount is earned from other bid items: 40% of the amount bid for mobilization and demobilization, or 4% of the original contract amount, whichever is less, will be paid.
2. When 8% of the original contract is earned from other bid items: an additional 40% of the amount bid for mobilization and demobilization, 4% of the original contract amount, whichever is less, will be paid.
3. The remaining balance of the amount bid for this item will be paid after submittals required under the Contract are received and approved.

Progress payments for this item will be computed as equivalent to the percentage, rounded to the nearest whole percent, of the original contract amount earned.

100-5.01 BASIS OF PAYMENT. Replace with the following: Meals and lodging are subsidiary to Item 640(1) Mobilization and Demobilization.

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

At the contract lump sum price in partial payments as described above.

Item No.	Pay Item	Pay Unit
100(1)	Mobilization and Demobilization	Lump Sum

SECTION 200

PARK FACILITIES

200-1.01 DESCRIPTION. Furnish, construct, and place park facilities in conformance with the plans and technical specifications. Excavate, remove, haul, place, and compact or dispose of specified materials necessary to construct the project. Conform to the locations shown on the plans or as established.

200-1.02 APPLICABLE ACCESSIBILITY STANDARD. Americans with Disabilities Act (ADA) Accessibility Guidelines for Buildings and Facilities.

200-1.03 SUBMITTALS AND SUBSTITUTIONS. Conform to Subsection 106-1.01.

MATERIALS

200-2.01 GENERAL. All materials shall be new and conform to the details shown on the plans or as specified.

200-2.02 UNCLASSIFIED EXCAVATION. All materials of whatever character encountered in the work. May include rock, common, or muck.

200-2.03 CONCRETE. Class A Concrete as specified below:

Cement Content*, sacks/ yd ³ , minimum:	6.0
Water Cement Ratio, lbs/lbs, maximum:	0.50
Slump Range, inches:	2-4
Entrained Air Range, %:	4-7
Coarse Aggregate Gradation, AASHTO M 43:	No. 57 or 67
Compressive Strength, psi, min.:	4,000

*Cement content is based on 94-pound sacks.

Fine Aggregate for Concrete. Meet AASHTO M 6, Class A.

Course Aggregate for Concrete. AASHTO M 80, Class B.

200-2.04 PORTLAND CEMENT. Meet AASHTO M 85, Type I, II, or III, including the low-alkali cement requirement shown in Table 2.

200-2.05 STRUCTURAL STEEL. Structural steel shall conform to the requirements of ASTM Specification A36 (Standard Specification for Carbon Structural Steel).

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

200-2.06 GALVANIZING. Conform to AASHTO M111/ASTM A123 (Standard Specification for Zinc [Hot-Dip Galvanized] Coatings on Iron and Steel Products), or AASHTO M232/ASTM A153 (Standard Specification for Zinc Coating [Hot-Dip] on Iron and Steel Hardware). Repair damaged galvanizing by using low melting point zinc repair rods in conformance with ASTM A780 (Standard Practice for Repair of Damaged and Uncoated Areas of Hot-Dip Galvanized Coatings).

200-2.07 STANDARD PARK PADLOCK. Master Lock No. 1 with 5/16 inch shackle diameter, 15/16 inch vertical clearance, 3/4 inch horizontal clearance, 1-3/4 inch case width, and keyed alike to a key number provided by the Engineer specific to the Park area. Provide two keys with each padlock.

200-2.08 PAINT. Unless otherwise specified, use the following paint types and colors, or approved equals:

1. Solid Oil Stain. Exterior oil/alkyd flat finish stain, color "Russet". DF7XX as manufactured by Fuller O'Brien / Devoe Products, Sun-Proof Solid Alkyd/Oil Stain (77-1354) as manufactured by Pittsburgh Paint Company, Behr Plus 10 Solid Stain, Rural Manor II Solid Color Stain (714401x) as manufactured by Rodda Paint Co., or approved equivalent. Submit color samples of proposed substitutions for approval.
2. Semi-Transparent Oil Stain. Exterior alkyd based stain, color Sherwin Williams "SW 3507 Riverwood", Behr Superdeck "#1907 Canyon Brown", or PPG Architectural Finishes Olympic "Russet".
3. Clear Oil Stain. Non-pigmented penetrating exterior alkyd base stain formulated for water repellency.
4. Metal Primer Paint. As recommended by enamel paint manufacturer.
5. Enamel Paint. Exterior alkyd base gloss enamel. Color to match solid oil stain color.
6. Concrete Sealer. Clear acrylic copolymer conforming to AASHTO M148/ASTM C309 (Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete, for Type 1 Compounds).

Paint that has been frozen or is out of date shall be replaced at no additional cost to the Department.

200-2.09 SINGLE ENTRANCE GATE. Conform to the Plans. High intensity reflective sheeting for gates shall match 3M Scotchlite Reflective Sheeting #3820 and have

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

alternating red and white 4 inch wide stripes sloping downward at an angle of 45 degrees. Provide one standard Park padlock for each gate.

200-2.10 TRAFFIC BOLLARD. Single post bollard 6.625" OD, 36" height above grade, 12" below grade steel tube conforming to ASTM A513 Type 1. Post shall secure to reinforced concrete foundation according to manufacturer's installation requirements. Bollards shall be free from surface blemishes and defects where exposed to view in the finished installation. Surfaces shall be primed with rust and corrosion resistant, zinc rich primer with 5,000 hour salt spray performance. Finish shall be TGIC polyester outdoor finish RAL1028 Yellow meeting decorative and functional requirements for gloss retention, physical properties, chemical resistance and weatherability. Similar or equal to TrafficGuard Embedded Bollard RFP6660R.

CONSTRUCTION REQUIREMENTS

200-3.01 GENERAL. Confirm field locations with the Engineer prior to beginning construction.

200-3.02 EXCAVATION. Dispose unsuitable material or excess usable material at approved locations.

Obtain the property owner's written permission to dispose of unsuitable material or excess usable material at locations outside the right-of-way limits and a waiver of all claims against the State for any damage to such land which may result. Obtain all permits required by law for such disposal. Furnish a copy of such permission, waiver of claims, and permits to the Engineer before commencing work.

Ensure that all waste areas are properly graded and drained. Blend the outer limits of waste into surrounding grounds with no noticeable break or variation readily discernible. When existing roadway embankment slopes are used as disposal sites for waste or surplus material, finish the slopes with a motor grader or other approved method.

200-3.03 REMOVAL OF PAVEMENT. Dispose of all concrete pavement and base course designated for removal in an acceptable manner.

In removing pavements, make all cuts clean, vertical, and true to designated lines where an abutting structure or a part of a structure is to be left in place.

200-3.04 CONCRETE. Furnish, place, finish, and cure Portland cement concrete for structures and incidental construction as shown on the plans. Use Class A Concrete as specified in Section 200-2.03.

Be responsible for the design, construction, and performance of all concrete mixes used in structures.

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

The Engineer may reject any batch or load of concrete that fails to meet the minimum specified acceptance levels for temperature, slump, or air content. The Engineer may reject any batch or load of concrete, prior to sampling, that appears defective in composition. Do not incorporate rejected material into the structure.

200-3.05 BATCHING. Except as provided in this specification, use a central batching plant to handle, measure, and batch the materials.

1. Portland Cement. Use either sacked or bulk cement. Do not use a fraction of a sack of cement in a batch of concrete unless the cement is weighed.

Weigh bulk cement on a certified weighing device. Ensure that the bulk cement weighing hopper is properly sealed and vented to prevent dusting during operation. Do not suspend the discharge chute from the weighing hopper. Arrange the chute so that cement will not lodge in it or leak from it. Interlock the bulk cement hopper's discharge mechanism against:

- a. opening before the full batch is in the hopper and while the hopper is being filled,
 - b. closing before the hopper contents are entirely discharged and the scales are back in balance, and
 - c. opening if the batch in the hopper is either over or under weight by more than 1% of the amount specified.
2. Water. Measure water either by volume or by weight. Unless the water is to be weighed, include with the water-measuring equipment an auxiliary tank that will fill the measuring tank. Use a measuring tank equipped with an outside tap and valve to help in checking the setting, unless another means can readily and accurately determine the amount of water in the tank.
 3. Aggregates. When building up stockpiles, prevent segregation. Do not stockpile aggregates from different sources and of different gradings together.

When transporting aggregates from stockpiles or other sources to the batching plant, maintain a uniform grading of the material. Do not use aggregates that have become segregated or mixed with earth or foreign material. If aggregates have been produced or handled by hydraulic methods, or if they have been washed, stockpile them or bin them for draining at least 12 hours before they are batched. Rail shipment requiring more than 12 hours is adequate as binning if the car bodies drain freely. If the aggregates contain high or non-uniform moisture content, storage or stockpile periods may require more than 12 hours.

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

Do not use binned aggregates that contain ice, are frozen, or have been heated directly by gas or oil flame or on sheet metal over an open fire. When heating aggregates in bins, use steam-coil or water-coil heating. Use other methods only when approved. If using live steam to thaw frozen aggregate piles, completely drain excess moisture.

4. Bins and Scales. Include at the batching plant adequate bins for each required size of aggregate. Use bins that are designed to discharge freely into the weighing hoppers. Provide control so that as the material in the weighing hopper(s) approaches the desired quantity, the bin adds material slowly and shuts off with precision. Provide a means of removing any overload.

Use hoppers constructed to eliminate accumulations of tare materials and to fully discharge without jarring the scales. Include partitions between bins and hoppers to prevent spilling. Maintain batching plant structures at the level of accuracy required by the design of the weighing mechanism.

Provide devices at the bins or at the concrete mixer for weighing or measuring air-entraining admixtures or other additives.

Weigh aggregates and cement with a scale that is accurate within a tolerance of 0.5% and is certified annually.

If using the beam type scales, provide a "tell-tale" dial to indicate to the operator that the required load in the weighing hopper is being approached. The device must indicate at least the last 200 pounds of load. Use poises designed to lock in any position and to prevent unauthorized removal. Ensure that while charging the hopper, the operator can see the weigh beam and "tell-tale" device and can easily access the controls.

Provide enough clearance between the scale parts, hoppers, and bin structures to avoid displacing the parts or causing friction between the parts. Use pivot mountings designed to maintain the spacing of knife edges under all circumstances.

Keep scales clean. Furnish ten 50-pound weights for checking.

5. Batching. When hauling batches to the mixer, transport bulk cement either in waterproof compartments or place it between the fine and coarse aggregates. Sacked cement may be transported on top of the aggregates.

Deliver batches to the mixer separate and intact. Dump each batch into the mixer without loss. When carrying more than one batch on the truck, avoid spilling material from one batch compartment into another while dumping.

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

When placing a small volume of concrete, or when determining that proportioning by batching equipment is otherwise impractical, you may, with written approval, proportion the materials by weighing them on platform scales or by loose volume. Measure the quantities separately using equipment that will ensure uniform proportioning. Wheelbarrows or bottomless boxes, with carefully predetermined volumes, or other appropriate methods may be used. Do not proportion using shovels. When determining the volumes of the aggregates, consider the bulking effect of any moisture contained in the materials.

Immediately before using liquid air entraining agents, stir and agitate them until they are mixed. Add the air entraining agent to the mix simultaneously with the water. However, when mixing with water heated above 80 °F, add the air entraining agent after the aggregate and water are mixed.

Ensure that computerized batch plants do not include materials in a transit mixer from a previous load that was not completely used.

200-3.06 MIXING. Mix concrete at the construction site, at a central mixing plant, in a truck mixer, or by a combination of central plant and truck mixing. Conform to AASHTO M 157 and the following:

1. Mixing at Concrete Construction Site. Mix concrete in a batch mixer of the approved type and capacity. Mix for at least 60 seconds after all component materials, including water, are in the drum.

Begin charging water into the mixer before the cement and aggregates enter the drum. During mixing, operate the drum at speeds specified by the manufacturer and shown on the name plate on the machine. Replace pickup blades in the drum of the mixer that, at any point, are worn down 3/4 inch or more. Discharge the entire contents of the mixer from the drum before placing materials for a succeeding batch into the drum. Use a mixer equipped with a mechanism that prevents aggregates from being added after mixing has begun.

Use a mixer equipped with a timing device to mix for the minimum time specified. Do not allow the batch volume to exceed the manufacturer's rated capacity of the mixer. Do not use a mixer with a rated capacity of less than 1 cubic yard without written permission.

Mix only the quantity of concrete required for immediate use. Do not retemper concrete. When stopping mixing for a considerable length of time, clean the mixer thoroughly. When resuming mixing, include with the first batch of concrete material placed in the

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

mixer enough sand, cement, and water to coat the inside surface of the drum without diminishing the required cement content of the mix.

2. Central Plant Mixing. When mixing concrete at a central plant, use a mixer and methods according to the requirements of Subsection 200-3.06.1.

Transport mixed concrete from the central mixing plant to the work site in agitator trucks of the approved design. Regulate concrete delivery to place concrete at a continuous rate. Keep the intervals between batch deliveries short enough to prevent the concrete in place from hardening partially. Do not allow the intervals to exceed 30 minutes.

Use an agitator truck equipped with a closed, watertight, revolving drum that is suitably mounted and capable of transporting and discharging the concrete without segregation. Ensure that the drum agitating speed is at least 2 but not more than 6 revolutions per minute. Do not allow the volume of mixed concrete permitted in the drum to exceed the manufacturer's rating nor exceed 80% of the gross volume of the drum.

With approval, you may use open-top revolving-blade truck mixers instead of agitator trucks to transport central plant mixed concrete.

Furnish the mixer manufacturer's data showing the gross volume of agitator bodies, expressed in cubic feet.

Deliver the concrete to the work site and discharge it from the truck completely. Place the concrete in the forms ready for vibration within 1.5 hours after introducing the cement to the aggregates. If the Engineer approves, you may extend the above period 2 minutes for every degree of temperature the concrete is below 70 °F at the time it is ready for placement, to a maximum of 2 hours.

In hot weather, or under conditions that cause the concrete to set quickly, the Engineer may require discharge of the concrete in less than 1.5 hours.

Discharge concrete with a uniform consistency. Do not exceed a difference of 1 inch between slumps of samples from the 1/4 and 3/4 points of the discharged load.

All concrete, regardless of agitation time, must conform to the limitations of Table 200-1. Agitate the concrete mixture continuously until it is discharged from the truck.

**TABLE 200-1
CLASS OF CONCRETE**

	A	A-A	S	W
Cement Content*, sacks/ yd ³ , minimum	6.0	7.0	7.0	5.0
Water Cement Ratio, lbs/lbs, maximum	0.50	0.44	0.53	0.58
Slump Range, inches	2-4**	1-3	4-8	1-5
Entrained Air Range, %	4-7	5-8	None	3-7
Coarse Aggregate Gradation, AASHTO M 43	No. 57 or 67	No. 57 or 67	No. 57 or 67	No. 57 or 67
Compressive Strength, psi, min.	4,000	5,000	3,000	2,500

*Cement content is based on 94-pound sacks.

**Slump may be adjusted to less than 2 inches, for slip-formed concrete.

3. Truck Mixing. Concrete may be mixed in a truck mixer. Use truck mixing according to the following provisions:

Use a truck mixer with either a closed, watertight, revolving drum or an open-top, revolving-blade or paddle that combines all ingredients into a thoroughly mixed and uniform mass and discharges concrete with a uniform consistency. Do not exceed a difference of 1 inch between slumps of samples from the 1/4 and 3/4 points of the discharged load.

Mixing speed for the revolving-drum type mixer must be at least 4 revolutions per minute but do not exceed a peripheral velocity of the drum of 225 feet per minute. For the open-top type mixer, mixing speed must be between 4 and 16 revolutions per minute of the mixing blades or paddles.

Agitation speed for both the revolving-drum and the revolving-blade type mixers must be between 2 and 6 revolutions per minute of the drum or mixing blades or paddles. Comply with the truck mixer manufacturer's rated capacity, but do not exceed the limitations in this specification. Normal rated capacities, expressed as percentages of the gross volume of the drum or container, must not exceed 57.5% for truck mixing and 80% for agitating.

When truck mixing, a volume of concrete 10% greater than the normal rated capacity of 57.5% of the volume of the drum or container (that is, 63.25%) is acceptable provided the manufacturer guarantees that the increased volume will be adequately mixed and if you do additional mixing as stated in this specification.

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

The manufacturer must attach to each truck mixer a metal plate that states the capacity of volume of mixed concrete as a mixer and as an agitator. When the manufacturer's ratings of capacity are less than the limits indicated above, use the manufacturer's ratings.

Designate the mixing amount in number of revolutions. When mixing the concrete in a truck mixer loaded to its normal rated capacity, ensure that the drum or blades at mixing speed make at least 50 but no more than 100 revolutions after all materials, including mixing water, have been charged into the drum. If the batch is greater than normal rated capacity, but not more than 10% greater, ensure that the drum or blades at mixing speed make at least 70 but no more than 100 revolutions. All revolutions after 100 must be at agitating speed.

Provide a counter that will indicate the number of revolutions of the drum or blades. Also, provide a locking device to prevent the mixer from discharging before the required number of drum revolutions are completed.

Deliver the concrete to the work site and discharge it from the truck completely. Place the concrete in the forms ready for vibration within 1.5 hours after introducing the cement to the aggregates. With approval, you may extend the above period 2 minutes for every degree of temperature at which the concrete is delivered below 70 °F, to a maximum total time of 2 hours.

In hot weather, or under conditions that cause the concrete to set quickly, the Engineer may require discharge of the concrete in less than 1.5 hours.

All concrete regardless of agitation time must conform to the limitations in Table 501-1. Agitate the concrete mixture continuously until it is discharged from the truck.

Regulate concrete delivery to place concrete at a continuous rate. Keep the intervals between batch deliveries short enough to prevent the concrete in place from hardening partially. Do not allow the interval to exceed 30 minutes.

When mixing the concrete in a truck mixer, begin mixing within 30 seconds after the cement has been intermingled with the aggregates.

Except when using truck mixers exclusively as agitators, provide the mixers with a water-measuring device to accurately measure the water for each batch. Mount the device on the truck mixer or at the truck mixer loading point. Make the tank readily accessible to determine the amount of water delivered. The delivered amount of water must be within a tolerance of 1% of the indicated amount when the tank, if mounted on the truck mixer, is stationary and practically level.

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

When using wash water (flush water) as a portion of the mixing water for the succeeding batch, accurately measure it and use it when determining the amount of additional mixing water required.

With approval, you may use a properly calibrated combination materials transporter/mobile concrete mixing plant in good condition. Approval will be based on its ability to consistently produce specification concrete conforming with the manufacturer's published criteria. Furnish manufacturer's handbooks for the mixing plant proposed.

4. Hand Mixing. Use hand mixing only with written permission. When permitted, perform hand mixing only on watertight platforms. Measure the proper amount of coarse aggregate in a measuring box and spread it on the platform. Spread the fine aggregate on the coarse aggregate layer, with the two layers no more than 12 inches in total depth. Spread on this mixture the dry cement and then turn the whole mass at least two times dry. Add enough clean water, evenly distribute it, and turn the entire mass at least six times or until all coarse aggregate particles are covered thoroughly with mortar and the mixture is uniform in color and appearance. Hand-mixed batches must not exceed 0.5 cubic yard in volume. Do not hand-mix concrete that will be placed under water.

200-3.07 COLD WEATHER CONCRETE. Submit a written cold weather concreting plan when air temperatures are expected to fall below 35 °F during the cure period. Obtain the Engineer's approval of the plan and put it into effect before placing any concrete when the descending air temperature in the shade, away from artificial heat, falls below 40 °F or, in the opinion of the Engineer, will likely do so within 24 hours after concrete is placed. Have in place the materials and equipment required to heat mixing water and aggregate and to protect freshly placed concrete from freezing.

1. **Temperature of Concrete.** When the air temperature falls below 40 °F, ensure that concrete placed in forms has a temperature between 50 °F and 70°F. Obtain these temperatures by heating the mixing water and/or aggregate. Heat mixing water to no more than 160 °F. Heat aggregate as provided in Subsection 501-3.03.

When the temperature of the water or aggregate exceeds 100 °F, mix them together so that the temperature of the mix does not exceed 80 °F when the cement is added.

2. **Admixtures.** Use only admixtures shown in the approved mix design. Do not use calcium chloride.
3. **Cold Weather Placement.** When placing concrete in cold weather, follow these precautions in addition to the above requirements:

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

- a. Heat forms and reinforcing steel before placing concrete to remove frost, ice, and snow from surfaces that will contact fresh concrete.
 - b. When fresh concrete will contact hardened concrete, warm the surface of the hardened concrete to at least 35 °F and thoroughly wet. Remove free water before placing fresh concrete.
4. Protection of Concrete. When using Type I or II cement, maintain freshly placed concrete at a temperature of at least 70 °F for 3 days or at least 50 °F for 5 days. When using Type III cement, maintain concrete at a temperature of at least 70 °F for 2 days or at least 50 °F for 3 days. The above requirements do not apply when the concrete no longer is in danger of freezing or when air temperatures of 40 °F or higher are anticipated during the 2 weeks after concrete placement.

Maintain the concrete temperature using methods such as insulated forms, enclosures, and indirect heat. Maintain curing moisture. Protect the structure from overheating and fire.

At the end of the curing period, remove the protection so the concrete drops in temperature gradually and not more than 30 °F in the first 24 hours.

When placing concrete within cofferdams and curing it by flooding with water, the above conditions do not apply if the water that contacts the concrete is not allowed to freeze. Wait to dewater until the Engineer determines that the concrete has cured enough to withstand freezing temperatures and hydrostatic pressure.

Protect the concrete during cold weather operations. Remove and replace concrete injured by frost action or overheating at no cost to the Department.

200-3.08 HOT WEATHER CONCRETE. Provide concrete within the specified temperature limits as follows:

1. Shade or cool aggregate piles. Do not sprinkle fine aggregate piles with water. If sprinkling coarse aggregates, monitor the moisture content and adjust the mixing water for the free water in the aggregate.
2. Refrigerate mixing water or replace all or part of the mixing water with crushed ice, provided the ice is completely melted by concrete placing time.

If the concrete temperature would probably exceed 90 °F using normal methods, take temperature-reduction measures as required by the Engineer before placing the concrete.

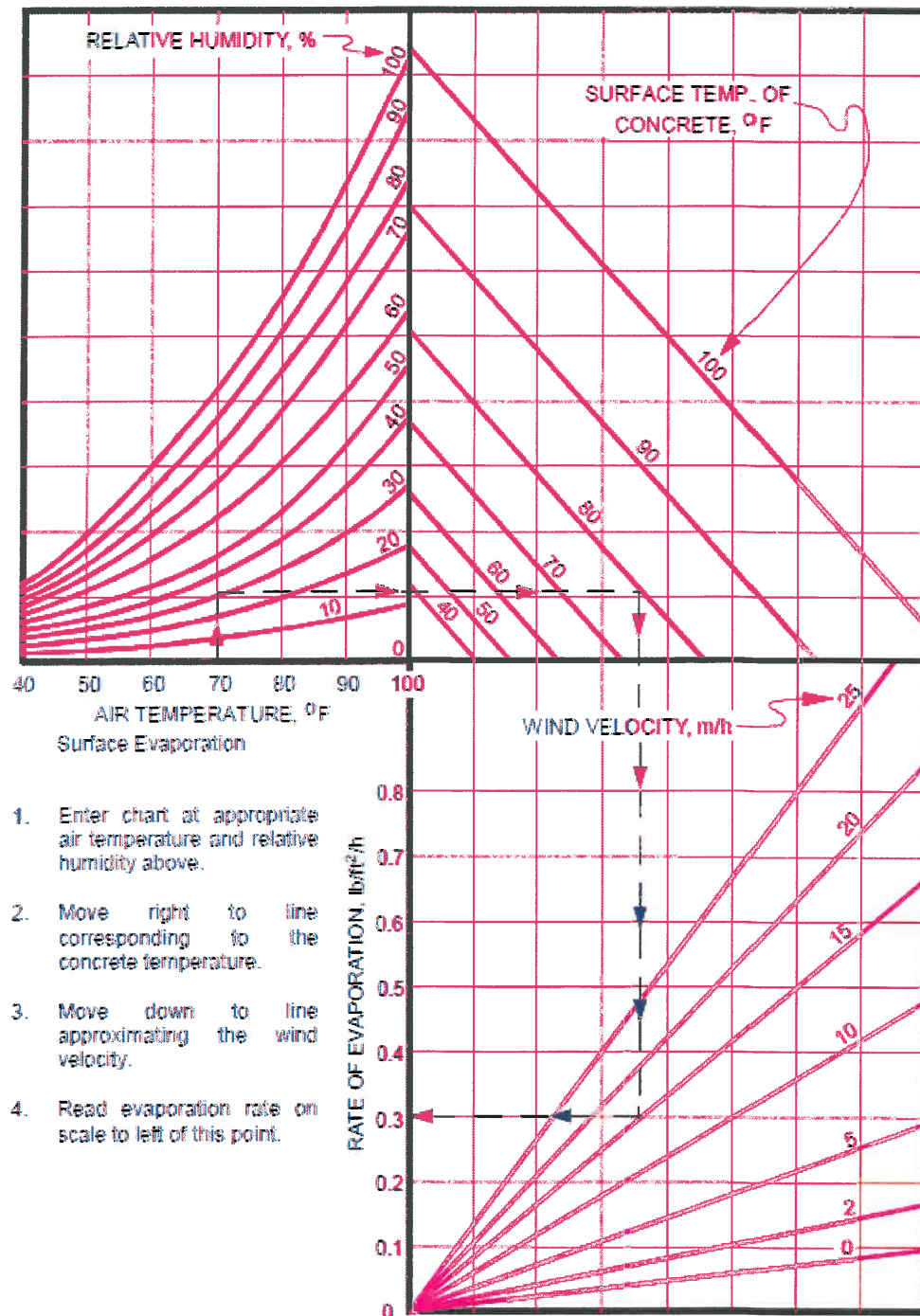
TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

TABLE 501-2
SURFACE EVAPORATION FROM CONCRETE



TECHNICAL SPECIFICATION
Chilkoot Lake SRS
Entrance Upgrades
Project Number 72031-1

If the air temperature exceeds 90 °F when placing concrete, use water spray or other methods to cool concrete-contact surfaces to less than 90 °F. These surfaces include forms, reinforcing steel, steel beam flanges, and others that touch the mix. Reduce the time between mixing and placing and do not permit mixer trucks to remain in the sun while waiting to discharge concrete. Shade chutes, conveyors, and pump lines. Finish the concrete without delay.

Provide water-fogging equipment at the site if needed after finishing to prevent plastic cracks.

When placing deck concrete that is 80 °F or hotter, install equipment at the site to show relative humidity and wind velocity. If the evaporation rate at the concrete site is 0.2 lb/ft²/h or more (determined from Table 200-2), surround the fresh concrete with an enclosure. This enclosure will protect the concrete from wind blowing across its surface until the curing compound is applied.

200-3.09 PLACING CONCRETE.

1. General. Provide a placement plan. Place and consolidate the concrete mix in approved forms to make a dense homogeneous concrete. Place concrete before it has initially set or within 30 minutes after mixing. Place concrete continuously and compact each layer before the succeeding one is dumped to prevent unplanned cold joints or damage to newly set concrete.

Place concrete as near as possible to final position. Do not deposit a large quantity at any point and run or work it along the forms. Regulate concrete placement so that the pressures caused by wet concrete do not exceed those used in the design of the forms.

200-3.10 CURING CONCRETE.

1. Water Curing. Keep concrete surfaces wet for at least 7 days after placing concrete with Type I or II cement, or for at least 3 days after placing concrete with Type III cement.

200-3.11 STRUCTURAL STEEL. Welding to conform to American Welding Society D1.1.

200-3.12 PAINT. Deliver in sealed containers with labels legible and intact. Remove dirt, grease, oil and other construction debris prior to painting. Ensure that surfaces to be painted are even, smooth, sound, clean, dry, and free from defects affecting proper application. Metal surfaces to receive paint shall be corrosion free. Apply per manufacturer's recommendations. Apply paint material evenly without runs, sags, or

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

other defects. Work each coat into the material being coated at an average rate of coverage recommended by the manufacturer. Cover surfaces completely to provide uniform color and appearance. Remove all paint, stain, or other finish material where it has spilled or spattered.

1. General. Unless otherwise specified, schedule finishes as follows:

a. Concrete and Masonry. Seal exposed surfaces.

b. Metal. Prime and paint exposed metal surfaces as required. Finish is not required for fasteners that are galvanized or corrosion resistant.

2. Single Entrance Gate.

a. Metal. Primer and Heavy Duty Aluminum Enamel Paint

200-3.13 SINGLE ENTRANCE GATE. Construct in accordance with the Plans.

200-3.14 TRAFFIC BOLLARD. Construct the bollard and anchoring system in accordance with the manufacturer's recommendations.

200-4.01 METHOD OF MEASUREMENT. Park facilities with the unit measure each will be measured by the actual number of facilities completed and accepted. Wherever the Contract provides that certain work is subsidiary or it is without extra compensation, the payment for that work is included in the payment for other items of work, and no further or additional payment shall be made for that work. The contractor shall accept the bid amount for each item as complete payment for all work necessary to complete that item.

Excavation for park facilities outside the limits shown on the plans will be measured for payment only if directed by the Engineer. Excavation required for items paid for under this Section will not be measured for payment.

200-5.01 BASIS OF PAYMENT. The accepted quantity of park facilities will be paid for at the contract unit price per unit of measurement for the type specified completed in place and listed below.

Payment will be made under:

Item No.	Pay Item	Pay Unit
200(1)	Single Entrance Gate	Each
200(2)	Traffic Bollard	Each

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

SECTION 300

STANDARD SIGNS

300-1.01 DESCRIPTION. Furnish and install standard signs and delineators. Remove and relocate or remove and dispose of existing signs and markers, as specified.

300-2.01 MATERIALS. Use materials that conform to the following:

- a. Sheet Aluminum. Use alloy 6061-T6, 5052-H36, 5052-H38, or recycled aluminum meeting alloy 3105, as specified in ASTM B209. Meet the thickness of aluminum sheet designated on the Plans. Verify alloy and temper designations by mill certification.

Treat the aluminum base metal sheets with a rinsed non-hexavalent chromium conversion coating for aluminum and aluminum alloys that meets ASTM B921, class one. Handle the cleaned and coated base metal only by a mechanical device or by operators wearing clean cotton or rubber gloves. After cleaning and coating operations, protect the panels at all times from contact or exposure to greases, oils, dust or other contaminants.

Make each sign panel a continuous sheet for all lengths 72 inches or less in the horizontal direction. Use no more than one vertical splice for signs up to 144 inches in length and 48 inches or less in height.

Meet the panel dimensions specified with a tolerance of 1/16 inch. Furnish metal panels that are cut to size and shape and free of buckles, warp, dents, cockles, burrs and any other defects resulting from fabrication. Complete all possible fabrication, including shearing, cutting and punching of holes prior to the base metal preparation.

- b. Reflective Sheeting. Meet AASHTO M 268, for the type specified.
- c. Acrylic Prismatic Reflectors. Meet AASHTO M 290 and the dimensions and colors shown on the Plans.
- d. Sign Posts. Use the type and size of posts designated on the Plans.
 1. Perforated Steel Posts. a. Fabricate posts from 0.105-inch (12 gauge) thick cold-rolled carbon steel sheets, commercial quality, to meet ASTM A653 and ASTM A924. Zinc coat, both sides, to meet coating designation G90. Form posts into a steel tube, roll to size, and weld in the corner.
 - b. Perforate all members for their entire length with 7/16 inch diameter holes on 1 inch centers.

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

- c. Furnish members that are straight and with a smooth, uniform finish, with no splices.
 - d. Ensure that all perforations and cut off ends are free from burrs.
 - e. Ensure that consecutive sizes will telescope freely with a minimum of play.
1. Shop Drawings. Submit shop drawings, for all signs that must meet the ASDS letter width and spacing charts, for approval before fabrication. Show the following on each sign drawing:
 - a. Dimensions of all horizontal and vertical characters and spaces
 - b. Overall dimensions
 - c. Sign material and sheeting material type
 - d. Panel thickness
 - e. Legend and letter series
 - f. Whether the sign will be framed
 2. Sign Fabrication. Use Type IV reflective sheeting (for lettering, symbols, borders, and background) on sheet aluminum panels for all signs.

Use a manufacturer-recommended clear coat on all screened signs.

Use sign layouts (including characters, symbols, corner radii, and borders) that conform to the ASDS.

3. Sign Posts and Bases. Use sign posts and bases of the types specified. The structural aspects of design and materials for sign supports must comply with the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. Do not splice sign posts.

Use Class A concrete for steel-reinforced slip base and breakaway base foundations meeting the requirements of Section 501. Concrete for other sign foundations may be Class W.

4. Delineators. Use delineator assemblies that conform to the requirements shown on the Plans. Fabricate flexible delineators using Type III, IV, or V Reflective Sheeting.
5. Reflective Sheeting Warranty. Supply manufacturer's warranty for reflective sheeting, including retention of fluorescent yellow-green (measured in accordance with ASTM E2301) for ten years according to the following criteria:
 - a. Minimum Fluorescent Luminance Factor YF: 20%
 - b. Minimum Total Luminance Factor YT: 35%

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

The warranty shall stipulate that: If the sheeting fails to meet the minimum fluorescence values within the first 7 years from the date of fabrication, the manufacturer shall, at the manufacturer's expense, restore the sign surface to its original effectiveness. If the reflective sheeting fails to meet the minimum fluorescence values within the 8th through 10th year from the date of fabrication, the manufacturer shall, at the manufacturer's expense, provide enough new replacement sign sheeting to the Department to restore the sign surface to its original effectiveness.

615-3.01 CONSTRUCTION REQUIREMENTS.

1. Install flexible delineator posts according to the manufacturer's recommendations.
2. Attach sign panels to posts and gates in accordance with the Plans.
3. All materials and finished signs are subject to inspection and acceptance in place.
 - b. Finished signs must be clean and have no chatter marks, burrs, sharp edges, loose rivets, delaminated reflective sheeting, or aluminum marks. Do not make repairs to the face sheet.
4. Secure the anchors in templates and install them according to the manufacturer's written instructions.
5. Attach a label to the back of all standard signs in the lower right corner. Make the label at least 15 square inches and show the year the sign was purchased from the manufacturer. Show the last two digits of the year in clear and bold numbers. Make the label from Type I or brighter reflective sheeting. Use background and legend colors meeting Table 300-1.

**TABLE 300-1
DECAL COLORS**

YEAR	BACKGROUND COLOR	LEGEND COLOR
XXX1	Yellow	Black
XXX2	Red	White
XXX3	Blue	White
XXX4	Green	White
XXX5	Brown	White
XXX6	Orange	Black
XXX7	Black	White
XXX8	White	Black
XXX9	Purple	White
XXX0	Strong Yellow-Green	Black

Central values and tolerance limits for each color, as referenced in the MUTCD, are available from the Federal Highway Administration, (HHS-30), 400 7th St. SW, Washington, D.C. 20590

TECHNICAL SPECIFICATION

Chilkoot Lake SRS

Entrance Upgrades

Project Number 72031-1

615-3.02 SIGN PLACEMENT AND INSTALLATION. The location and type of installation will be as shown on the Plans. Sign locations are approximate and subject to field adjustment by the Engineer.

On all signs, install 2-inch diameter wind washers, colored to match the sign face, between the fastener head and the sign. Use rust-resistant washers fabricated from a material equal in strength to the sign blank.

Mount signs on mast arms level.

615-4.01 METHOD OF MEASUREMENT.

Standard Signs and Object Markers. By the total area of legend-bearing sign panel erected in place. No deductions in quantity for corner rounding will be made. Nominal dimensions for sign sizes indicated on the Plans will be used to calculate sign pay quantities. Octagons and round signs will be measured as rectangles. Only one side of each double-faced sign will be measured for payment.

Delineators. By each, complete in place. A single delineator consists of one post equipped with two reflectors.

615-5.01 BASIS OF PAYMENT. Sign posts, bases, and mounting hardware are subsidiary.

Payment will be made under:

Item No.	Pay Item	Pay Unit
300(1)	Standard Sign	Square Foot

APPENDIX A

SITE PICTURES



Image capture: Sep 2011 © 2016 Google

FIGURE 1. VIEW NORTH



Image capture: Sep 2011 © 2016 Google

FIGURE 2. VIEW SOUTH

APPENDIX B

STATE WAGE RATES

State of Alaska
Department of Labor & Workforce Development
Laborers' & Mechanics' Minimum Rates of Pay
(Pamphlet No. 600)

can be found at: <http://www.labor.state.ak.us/lss/pamp600.htm>

APPENDIX C

PERMITS

PERMIT DESCRIPTION	ISSUE DATE	EXPIRE DATE
Department of Natural Resources Office of History and Archeology Letter of No Historic Properties Adversely Affected	April 10, 2014	N/A



THE STATE
of ALASKA
GOVERNOR SEAN PARNELL

Department of Natural Resources

DIVISION OF PARKS AND OUTDOOR RECREATION
Office of History and Archaeology

550 West 7th Avenue, Suite 1310
Anchorage, Alaska 99501-3565
Web: <http://dnr.alaska.gov/parks/oha>
Phone: 907.269.8721
Fax: 907.269.8908

April 10, 2014

File No.: 3130-2R DPOR

Chet Fehrmann
Environmental Impact Analyst
DNR-DPOR
Design and Construction
550 W. 7th Avenue, Suite 1340
Anchorage, AK 99501

Subject: Chilkoot River Corridor Bear Viewing Area Improvements

Dear Mr. Fehrmann:

The Alaska State Historic Preservation Office (AK SHPO) received your correspondence on March 12, 2014. We concur that the Chilkoot Village Archaeological District (SKG-00018) is eligible for the National Register of Historic Places (NRHP) under Criteria A and D.

Following our review of the documentation provided, we concur that a **finding of no adverse effect** is appropriate for the proposed project as the construction activities will not be located in areas of known cultural deposits or contributing properties to the district. However, given the area, the potential remains for inadvertent effects to as-yet undocumented archaeological deposits. We understand that DPOR has received comments specifying concerns about potential effects to archaeological resources as well as to Deer Rock (Peace Rock), a site of sacred importance, within the project area. We encourage DPOR to carefully consider these comments and, where feasible, accommodate the recommendations that have been made to avoid and/or minimize potential effects to significant cultural resources. Further, it is advisable to remind personnel constructing the project to be mindful that the work is being conducted in an area of archaeological sensitivity and also of sacred importance to local residents.

Should unidentified archaeological resources be discovered in the course of the project, work must be interrupted until the resources have been evaluated in terms of the National Register of Historic Places eligibility criteria (36 CFR 60.4) or Alaska Landmarks status in consultation with our office.

Thank you for the opportunity to comment. Please contact Shina duVall at 269-8720 or shina.duvall@alaska.gov if you have any questions or if we can be of further assistance.

Sincerely,

A handwritten signature in dark ink, appearing to read "Judith E. Bittner".

Judith E. Bittner
Deputy State Historic Preservation Officer

JEB:sad

